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("isolated execution" and attack)

Terms used: **isolated execution** **attack**

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### 1 [Energy and execution time analysis of a software-based trusted platform module](#)

Najwa Aaraj, Anand Raghunathan, Srivaths Ravi, Niraj K. Jha

 April 2007 **DATE '07**: Proceedings of the conference on Design, automation and test in Europe
**Publisher:** EDA Consortium
 Full text available: [pdf\(838.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Trusted platforms have been proposed as a promising approach to enhance the security of general-purpose computing systems. However, for many resource-constrained embedded systems, the size and cost overheads of a separate Trusted Platform Module (TPM) ...

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### 2 [Externally verifiable code execution](#)

 Arvind Seshadri, Mark Luk, Adrian Perrig, Leendert van Doorn, Pradeep Khosla  
 September 2006 **Communications of the ACM**, Volume 49 Issue 9
**Publisher:** ACMAdditional Information: [full citation](#),
 Full text available: [pdf\(194.20 KB\)](#) [html\(25.88 KB\)](#)
[abstract](#),  
[references](#), [index terms](#)

Using hardware- and software-based techniques to realize a primitive for externally verifiable code execution.

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### 3 [Is a bot at the controls?: Detecting input data attacks](#)

 Travis Schluessler, Stephen Goglin, Erik Johnson  
 September 2007 **NetGames '07**: Proceedings of the 6th ACM SIGCOMM workshop on Network and system support for games
**Publisher:** ACM
 Full text available: [pdf\(158.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The use of programmatically generated input data in place of human-generated input data poses problems for many computer applications in use today. Mouse clicks and keyboard strokes can automatically be generated to cheat in online

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 To Satisfy Your Signage Needs  
 Contact Us for Information.  
[www.SMISignsOnline.com](http://www.SMISignsOnline.com)

games, or to perpetrate ...

**Keywords:** cheat detection, cheating, online games, security

#### 4 A feather-weight virtual machine for windows applications



Yang Yu, Fanglu Guo, Susanta Nanda, Lap-chung Lam, Tzi-cker Chiueh  
June 2006 **VEE '06**: Proceedings of the 2nd international conference on Virtual execution environments

**Publisher:** ACM

Full text available: pdf(192.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many fault-tolerant and intrusion-tolerant systems require the ability to execute unsafe programs in a realistic environment without leaving permanent damages. Virtual machine technology meets this requirement perfectly because it provides an execution ...

**Keywords:** copy on write, mobile code security, namespace virtualization, system call interception, virtual machine

#### 5 Secure virtual architecture: a safe execution environment for commodity operating systems



John Criswell, Andrew Lenharth, Dinakar Dhurjati, Vikram Adve  
October 2007 **SOSP '07**: Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles

**Publisher:** ACM

Full text available: pdf(383.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes an efficient and robust approach to provide a *safe execution environment* for an entire operating system, such as Linux, and all its applications. The approach, which we call *Secure Virtual Architecture (SVA)*, defines ...

**Keywords:** compiler, memory safety, operating systems, security, type safety, typed assembly language, virtual machine

#### 6 Implementing middleware for content filtering and information flow control



Jeffrey Choi Robinson, W. Scott Harrison, Nadine Hanebutte, Paul Oman, Jim Alves-Foss  
November 2007 **CSAW '07**: Proceedings of the 2007 ACM workshop on Computer security architecture

**Publisher:** ACM

Full text available: pdf(167.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses the design and implementation of a middleware guard for purposes of content filtering and information flow control in the Multiple Independent Levels of Security (MILS) architecture. The MILS initiative is a joint research effort ...

**Keywords:** CORBA, GIOP, IIOP, MILS, MLS, common criteria, guards, high assurance, safety, security

## 7 Container-based operating system virtualization: a scalable, high-performance alternative to hypervisors



Stephen Soltesz, Herbert Pötzl, Marc E. Fiuczynski, Andy Bavier, Larry Peterson  
June 2007 **ACM SIGOPS Operating Systems Review**, Volume 41 Issue 3  
**Publisher:** ACM

Full text available: [pdf\(863.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Hypervisors, popularized by Xen and VMware, are quickly becoming commodity. They are appropriate for many usage scenarios, but there are scenarios that require system virtualization with high degrees of both *isolation* and *efficiency*. Examples ...

**Keywords:** Linux-VServer, Xen, alternative, container, hypervisor, operating, system, virtualization

## 8 Container-based operating system virtualization: a scalable, high-performance alternative to hypervisors



Stephen Soltesz, Herbert Pötzl, Marc E. Fiuczynski, Andy Bavier, Larry Peterson  
March 2007 **EuroSys '07: Proceedings of the ACM SIGOPS/EuroSys European Conference on Computer Systems 2007**  
**Publisher:** ACM

Full text available: [pdf\(863.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Hypervisors, popularized by Xen and VMware, are quickly becoming commodity. They are appropriate for many usage scenarios, but there are scenarios that require system virtualization with high degrees of both *isolation* and *efficiency*. Examples ...

**Keywords:** Linux-VServer, Xen, alternative, container, hypervisor, operating, system, virtualization

## 9 Symmetric behavior-based trust: a new paradigm for internet computing



Vivek Haldar, Michael Franz  
September 2004 **NSPW '04: Proceedings of the 2004 workshop on New security paradigms**  
**Publisher:** ACM

Full text available: [pdf\(76.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Current models of Internet Computing are highly asymmetric - a host protects itself from malicious mobile Java programs, but there is no way to get assurances about the behavior of a program running remotely. The asymmetry stems from a behavior-based ...

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